

Form PTO-1449
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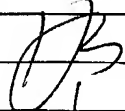
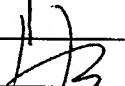
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
Takashi IGARASHI et al.FILING DATE
July 3, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
		6,050,877	04-2000	SHIBATA et al.	451	5
		6,220,929B	04-2001	MIZUMO	451	4B
		6,080,044A	06-2000	LANHAM et al.	451	42
		6,123,604	09-2000	MIZUNO et al.	451	42
		4,989,316A	02-1991	LOGAN et al.	451	42
		5,149,337A	09-1992	WATANABE	451	42
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		6,276,994B	08-2001	YOSHIDA et al.	451	42
		6,099,383A	08-2000	MIZUNO et al.	451	43
		6,203,409B	03-2001	KENNEDY et al.	451	43
		5,993,295A	11-1999	RAFFAELLI	451	43
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			5,882,247	03-1999	LONGUET et al.	
		4,115,956	09-1978	HUFFMAN		

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	JP A 4-315563	11/06/1992	JAPAN (NO TRANSLATION)		
	JP A 5-4156	01/14/1993	JAPAN (NO TRANSLATION)		
	JP A 5-131350 (w/abstract)	05/28/1993	JAPAN (NO TRANSLATION)		
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	JP A 9-309051	12/02/1997	JAPAN (NO TRANSLATION)		
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	JP A 11-10427	01/19/1999	JAPAN (NO TRANSLATION)		
JB	JP A 11-28650	02/02/1999	JAPAN (NO TRANSLATION)		

EXAMINER

DATE CONSIDERED

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